

IX. *The apparent Times of the Immersions and Emerfions of the four Satellites of Jupiter, for the Year 1740. computed to the Meridian of the Royal Observatory at Greenwich, by James Hodgson, F. R. S. Master of the Royal Mathematical School in Christ's Hospital, London. In all 374.*

ECLIPSES of the first Satellite of JUPITER.

D. H. M. S.	D. H. M. S.	D. H. M. S.
JANUARY.	FEBRUARY.	MARCH.
Emerfions.	Emerfions.	Emerfions.
1 22 10 13	1 0 15 7	2 2 30 48
3 16 38 24	2 18 44 2	3 21 0 9
5 11 6 35	4 12 12 59	5 15 29 32
7 5 34 49	6 7 41 59	7 9 58 53
9 0 3 7	8 2 11 0	9 4 28 15
10 18 31 30	9 20 40 2	10 22 57 39
12 12 59 53	11 15 9 8	12 17 27 1
14 7 28 18	13 9 38 16	14 11 56 26
16 1 56 45	15 4 7 25	16 6 25 49
17 20 25 15	16 22 36 35	18 0 55 11
19 14 53 49	18 17 5 47	19 19 24 35
21 9 22 28	20 11 35 1	21 13 53 57
23 3 51 8	22 6 4 15	23 8 23 18
24 22 19 50	24 0 33 31	25 2 52 37
26 16 48 38	25 19 2 49	26 21 21 58
28 11 17 27	27 13 32 9	28 15 51 16
30 5 46 16	29 8 1 28	30 10 20 36
		APRIL.

ECLIPSES of the first Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
APRIL.				10	3	26	53	AUGUST.			
Emerfions.				11	21	55	29	Immerfions.			
				JUNE.							
1	4	49	51	Immerfions.				1	5	30	21
2	23	19	7					2	23	59	9
4	17	48	21					4	18	27	59
6	12	17	33	28	14	28	22	6	12	56	49
8	6	46	43	30	8	56	43	8	7	25	39
10	1	15	56	JULY.				10	1	54	32
11	19	45	4	Immerfions.				11	20	23	26
13	14	14	11					13	14	52	21
15	8	43	15					15	9	21	18
17	3	12	19					17	3	50	16
18	21	41	9	2	3	25	24	18	22	19	14
20	16	10	19	3	21	53	44	20	16	48	13
22	10	39	15	5	16	22	4	22	11	17	13
24	5	8	10	7	10	50	26	24	5	46	14
25	23	37	4	9	5	18	49	26	0	15	16
27	18	5	54	10	23	47	14	27	18	44	17
29	12	34	44	12	18	15	40	29	13	13	21
MAY.				14	12	44	7	31	7	42	25
Emerfions.				16	7	12	38	SEPTEMBER.			
				18	1	41	10	Immerfions.			
				19	20	9	44				
				21	14	38	20				
				23	9	6	54				
1	7	3	30	25	3	35	32	2	2	11	30
3	1	32	15	26	22	4	12	3	20	40	32
4	20	0	58	28	16	32	53	5	15	9	36
6	14	29	37	30	11	1	37	7	9	38	38
8	8	58	16	U u							

ECLIPSES of the first Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
9	4	7	41	19	21	10	48	29	13	55	56
10	22	36	45	21	15	39	15	DECEMBER.			
12	17	5	48	23	10	7	38	Immersions.			
14	11	34	51	25	4	36	2	1	8	23	40
16	6	3	51	26	23	4	23	3	2	51	19
18	0	32	50	28	17	32	41	4	21	19	1
19	19	1	50	30	12	0	57	6	15	46	44
21	13	30	48	NOVEMBER.				8	10	14	23
23	7	59	45	Immersions.				10	4	42	3
25	2	28	41	1	6	29	19	11	23	9	44
26	20	57	34	3	0	57	16	13	17	37	30
28	15	26	28	4	19	25	28	15	12	5	14
30	9	55	20	6	13	53	33	Emersions.			
OCTOBER.				8	8	21	35	17	8	47	8
Immersions.				10	2	49	38	19	3	14	54
2	4	24	10	11	21	17	39	20	21	42	42
3	22	52	57	13	15	15	35	22	16	10	31
5	17	21	44	15	10	13	29	24	10	38	20
7	11	50	29	17	4	41	22	26	5	6	10
9	6	19	13	18	23	9	14	27	23	34	7
11	0	47	54	20	17	37	5	29	18	2	5
12	19	16	34	22	12	4	53	31	12	30	4
14	13	45	9	24	6	32	41				
16	8	13	45	26	1	0	27				
18	2	42	18	27	19	28	12				

ECLIPSES of the *second* Satellite of JUPITER.

D. H. M. S.	D. H. M. S.	D. H. M. S.
JANUARY.		
Emerfions.		
3 17 33 10	4 3 49 15	3 14 15 19
7 6 50 27	7 17 8 50	7 3 33 31
10 19 7 57	11 6 28 25	10 16 51 36
14 8 25 35	14 19 48 2	
17 22 43 21	18 9 7 40	
21 12 1 25	21 22 27 15	
25 1 19 37	25 11 46 46	
28 14 38 3	29 1 6 16	
FEBRUARY.		
Emerfions.		
1 3 56 35	1 14 25 41	
4 17 15 18	5 3 45 37	
8 6 34 9	8 17 4 10	
11 19 53 8	12 6 23 19	
15 9 12 16	15 19 42 18	
18 22 31 30	19 9 1 6	
22 11 10 50	22 22 19 55	
26 1 10 14	26 11 38 33	
29 14 29 43	30 0 57 1	
MARCH.		
Emerfions.		
APRIL.		
Emerfions.		
MAY.		
Emerfions.		
JUNE.		
Immerfions.		
25 18 57 5		
29 8 14 22		
JULY.		
Immerfions,		
2 21 31 46		
6 10 49 15		
10 0 6 48		
13 13 24 27		
17 3 42 15		
20 16 0 9		
24 5 18 6		
27 18 36 12		
31 7 54 16		
AUGUST.		

ECLIPSES of the second Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
AUGUST.				22	15	34	34	7	20	25	51
Immersions:				26	4	53	5	11	9	42	37
				29	18	11	34	14	22	59	11
				OCTOBER.				18	12	15	38
3	21	12	44	Immersions.				22	1	31	57
7	10	31	8					25	14	48	14
10	23	49	37					29	4	4	21
14	13	8	10					DECEMBER.			
18	2	26	48	3	7	29	55	Immersions.			
21	15	45	30	6	20	48	10	2	17	20	29
25	5	4	15	10	10	6	20	6	6	36	29
28	18	23	2	13	23	24	19	9	19	52	52
SEPTEMBER.				17	12	42	12	13	9	8	38
Immersions.				21	1	59	53	Emerfions.			
1	7	41	53	24	15	17	24	17	1	12	3
4	21	0	45	28	4	34	47	20	14	28	24
8	10	19	36	31	17	51	59	24	34	44	44
11	23	38	25	NOVEMBER.				27	17	1	11
15	12	57	11	Immersions.				31	5	17	57
19	2	16	4								
				4	7	8	48				

ECLIPSES of the third Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JANUARY.				21	4	26	17	18	12	53	35
Immersion.				28	8	29	49	25	16	55	38
1	21	47	22	MARCH.				MAY.			
9	1	45	43	Immersion.				Immersion.			
16	5	44	48	6	9	55	57	Emergence.			
23	9	44	40	13	13	58	43	2 20 57 9			
30	13	45	14	20	18	1	34	10 0 57 54			
Emergence.				27	22	4	15	JUNE.			
2	0	17	0	Emergence.				Immersion.			
9	4	16	11	6	12	33	33	21 22 3 20			
16	8	16	8	13	16	37	15	29 2 1 34			
23	12	16	52	20	20	41	2	Emergence.			
30	16	18	20	28	0	44	39	JULY.			
FEBRUARY.				APRIL.				Immersion.			
Immersion.				Immersion.				6 6 0 9			
6	17	46	27	4	2	6	42	13 9 59 3			
13	21	48	14	11	6	8	46	20 13 58 28			
21	1	50	29	Emergence.				27 17 58 15			
28	5	53	7	Emergence.				Emergence.			
Emergence.				4	4	48	2				
6	20	20	27	11	8	51	2				
14	0	23	8								

ECLIPSES of the third Satellite of JUPITER.

D	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
Emerfions.				Emerfions.				19	9	56	20
20	16	53	32	1	17	3	18	26	13	52	32
27	20	54	15	8	21	5	31	Emerfions.			
AUGUST.				16	1	7	40	5	5	10	57
Immerfions.				23	5	9	34	DECEMBER.			
3	21	58	32	30	9	11	7	Immerfions.			
11	1	59	10	OCTOBER.				3	17	48	23
18	6	0	9	Immerfions.				10	21	44	7
25	10	1	25	7	10	7	25	Emerfions.			
Emerfions.				14	14	7	13	18	4	52	54
4	0	55	28	21	18	6	23	25	8	49	52
11	4	57	2	28	22	4	58	NOVEMBER.			
18	8	58	57	Emerfions.				Immerfions.			
25	13	1	7	7	13	12	15	5	2	2	43
SEPTEMBER.				14	17	12	53	12	5	59	52
Immerfions.				21	21	12	53	ECLIPSES			
1	14	2	44	29	1	12	18				
8	18	4	5								
15	22	5	22								
23	2	6	24								
30	6	7	7								

ECLIPSES of the fourth Satellite.

D. H. M. S.	D. H. M. S.	D. H. M. S.
JUNE.		
Immersions.		
24	8	42 42
Emerfions.		
24	10	15 0
JULY.		
Immersions.		
11	2	51 17
27	20	45 32
Emerfions.		
11	4	28 53
27	22	38 46
AUGUST.		
Immersions.		
13	14	52 25
30	8	54 30
EMERFIONS.		
13	16	51 29
30	10	13 46
SEPTEMBER.		
Immersions.		
16	3	1 55
Emerfions.		
16	4	32 41
OCTOBER.		
Immersions.		
2	21	3 55
19	15	6 9
EMERFIONS.		
2	23	44 47
19	17	56 37
NOVEMBER.		
Immersions.		
5	9	5 25
22	3	2 0
EMERFIONS.		
5	12	4 45
22	6	10 0
DECEMBER.		
Immersions.		
8	20	54 40
25	14	48 37
EMERFIONS.		
8	23	10 32
25	18	12 9